



Sheet # 2 (Arrays)

1. Write a **C++ program** that accepts an array of integers and an integer number and search if this number exists in the array, if the number exists display its indexes in the array.
2. Write a **C++ program** that accepts an array of integers, count number of zeros, positive and negative numbers in the array.

Solution of sheet 2

1.

```
#include<iostream>
using namespace std;

void main()
{
    int valueList[]={1,2,5,4,5,6,7,8,5};
    int key=10;
    int index[10], j=0;
    for (int i=0 ; i<9 ; i++)
    {
        if (key== valueList[i]){
            index[j]=i;
            j++;
        }
    }
    if (j==0)
        cout<<"the element not found";
    else {
        for(int i=0;i<j;i++)
            cout<<index[i];
    }
}
```



```
2. #include<iostream>

using namespace std;

void main()
{
    int matrix[10], i, positive=0, negative=0, zero=0;
    for(i=0; i<10; i++)
        cin>>matrix[i];

    for(i=0; i<10; i++)
    {
        if(matrix[i]>0) positive++;
        else if(matrix[i]<0) negative++;
        else zero++;
    }

    cout<<"Number of positive numbers is "<<positive<<endl;
    cout<<"Number of negative numbers is "<<negative<<endl;
    cout<<"Number of zeros is "<<zero<<endl;
}
```